

**FIG. 1**

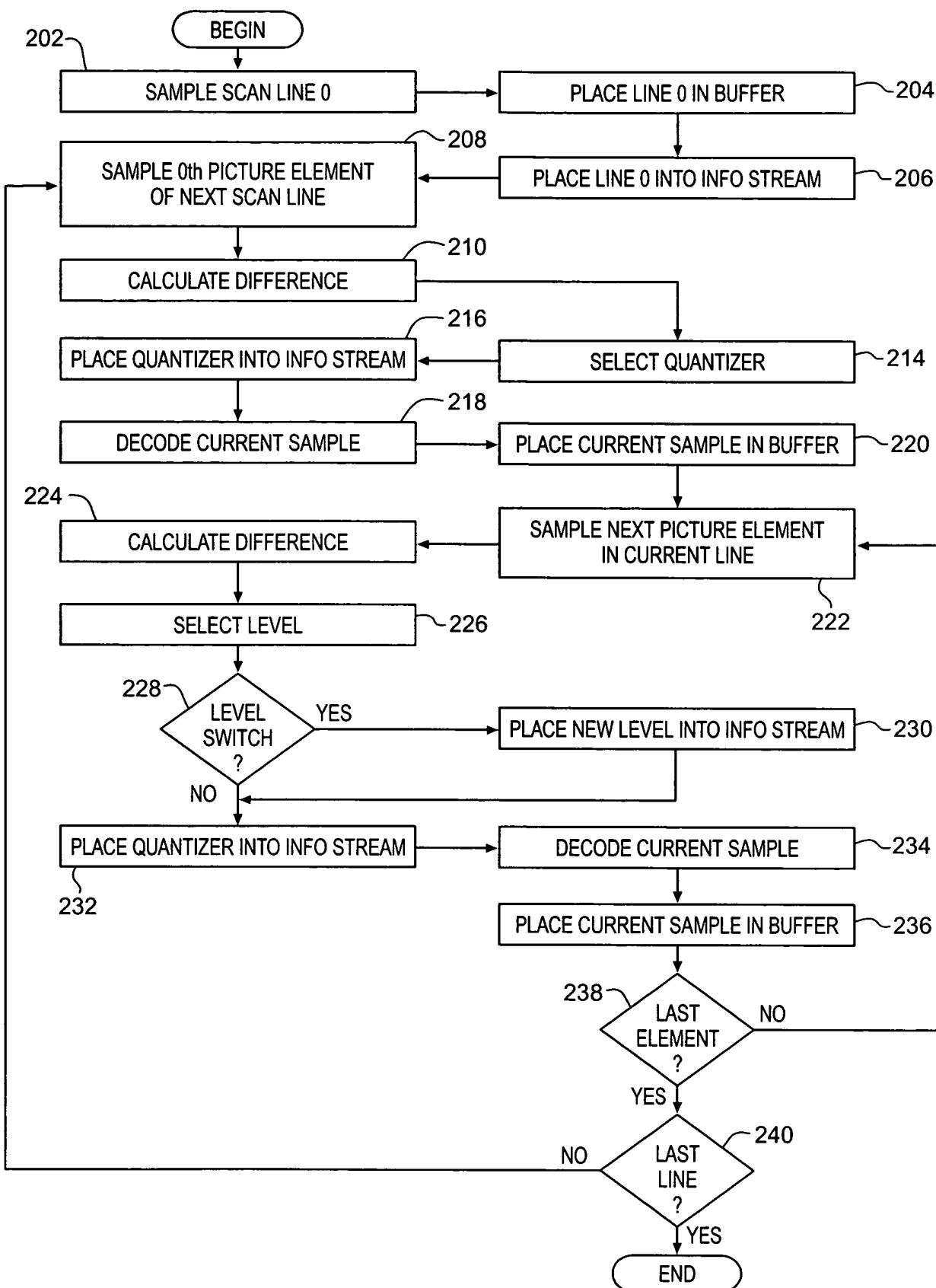


FIG. 2

300

EXAMPLE Y-PLANE

SAMPLE	0	1	2	3	4	5	6	7
LINE 0 (PREVIOUS LINE)	157	158	153	152	159	162	108	107
LINE 1 (CURRENT LINE)	156	158	157	159	40	60	111	116

**FIG. 3**

400

EXAMPLE QUANTIZER TABLE

QUANTIZERS

LEVEL	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
0	0	1	-1	2	-2	3	-3	4	-4	5	-5	6	-6	7	-7
1	0	4	-4	9	-9	16	-126	25	-25	36	-36	49	-49	64	-64
2	0	5	-5	15	-15	32	-32	55	-55	88	-88	129	-129	181	-181
3	0	8	-8	27	-27	64	-64								
4	0	11	-11	46	-46	128	-128								

FIG. 4

500

HIGH QUALITY, 4-BIT ENCODING EXAMPLE

SAMPLE	DIFFERENCE	BEST LEVEL	LEVEL USED	QUANTIZER	QUANTIZATION VALUE	INFORMATION STREAM
0	-1	1	1	0	0	0
1	0	1	1	0	0	0
2	4	1	1	1	4	1
3	7	1	1	3	9	3
4	-119	2	2	12	-129	15, 2 LEVEL SHIFT 12
5	-102	2	2	10	-88	10
6	3	1	2	1	5	1
7	9	1	2	1	5	1

**FIG. 5A**

510

SAMPLE	0	1	2	3	4	5	6	7
LINE 0 (PREVIOUS LINE)	157	158	153	152	159	162	108	107
LINE 1 (CURRENT LINE)	157	158	157	161	30	74	113	111

**FIG. 5B**

600

HIGH QUALITY, 3-BIT ENCODING EXAMPLE

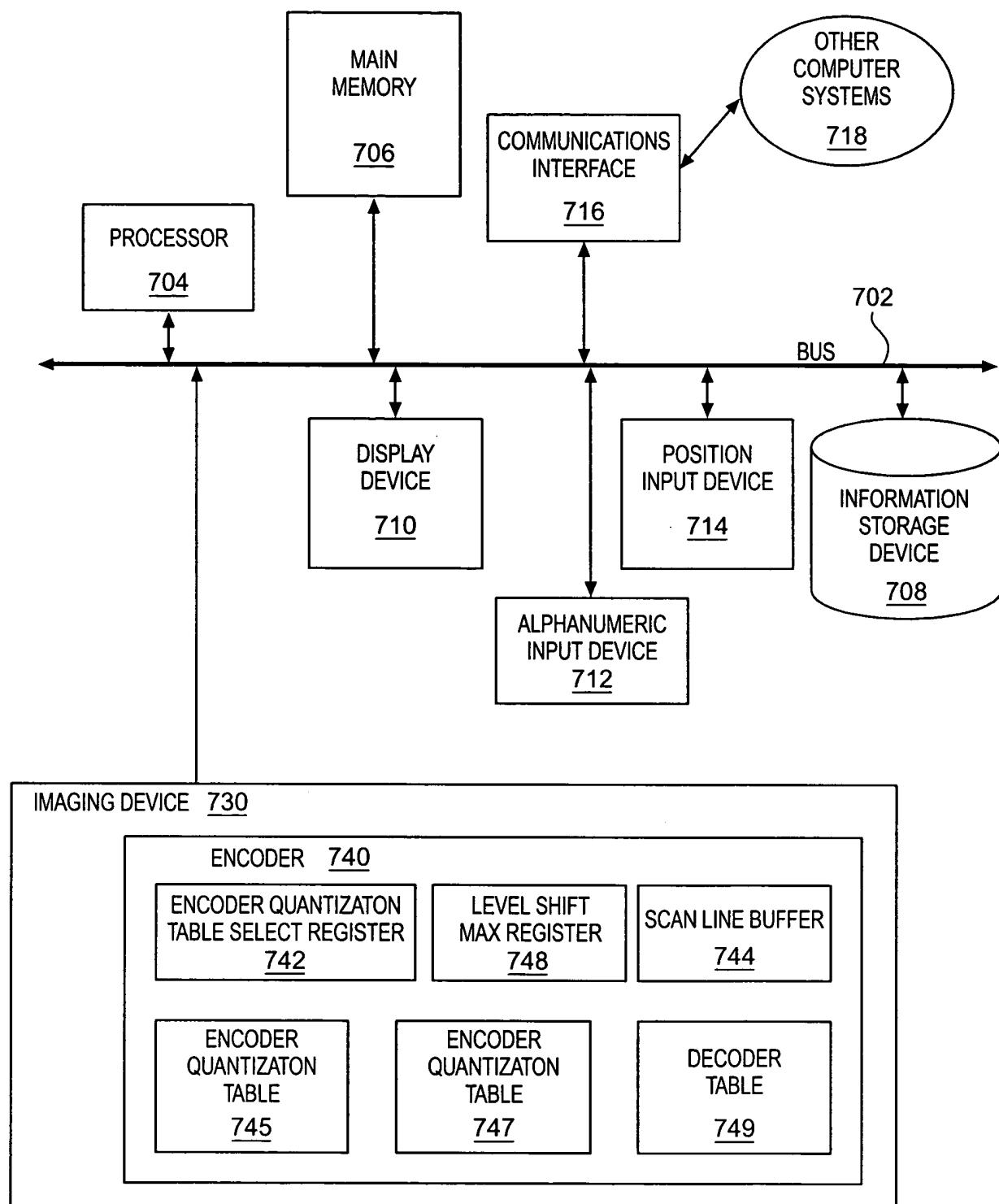
SAMPLE	DIFFERENCE	BEST LEVEL	LEVEL USED	QUANTIZER	QUANTIZATION VALUE	INFORMATION STREAM
0	-1	2	2	0	0	0
1	0	2	2	0	0	0
2	4	2	2	1	5	1
3	7	2	2	1	5	1
4	-119	4	4	6	-128	7, 4 LEVEL SHIFT 6
5	-102	4	4	6	-128	6
6	3	2	4	0	0	0
7	9	2	4	1	11	1

**FIG. 6A**

610

SAMPLE	0	1	2	3	4	5	6	7
LINE 0 (PREVIOUS LINE)	157	158	153	152	159	162	108	107
LINE 1 (CURRENT LINE)	157	158	158	157	31	34	108	118

**FIG. 6B**



**FIG. 7**

QUANTIZER (LIMIT)

	0	1, 2	3, 4	5, 6	7, 8	9, 10	11, 12	13, 14 (LAST)
LEVEL	0	1	2	3	4	5	6	7
	1	3	7	13	21	31	43	57
	2	3	11	24	44	72	109	156
	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A

4-BIT ENCODE TABLE (NO UNDER CORRECTION)

**FIG. 8A**

QUANTIZER (LIMIT)

	0	1, 2	3, 4	5, 6	7, 8	9, 10	11, 12	13, 14 (LAST)
LEVEL	0	2	4	6	8	10	12	14
	1	6	14	26	42	62	86	114
	2	6	22	48	88	144	218	312
	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A

4-BIT ENCODE TABLE (50% UNDER CORRECTION)

**FIG. 8B**

QUANTIZER

	1, 2	3, 4	5, 6	7, 8	9, 10	11, 12	13, 14
LEVEL	0	1	2	3	4	5	6
	1	4	9	16	25	36	49
	2	5	15	32	55	88	129
	3	N/A	N/A	N/A	N/A	N/A	N/A
	4	N/A	N/A	N/A	N/A	N/A	N/A

4-BIT DECODE TABLE

**FIG. 8C**